	INTERNATIONAL SEARCH REPO	ЭT	Interna				
	INTERNATIONAL SEARCH REPORT		PCT/US04/25395	5			
IPC(7) US CL	SIFICATION OF SUBJECT MATTER : A01N 1/00 : 435/2 International Patent Classification (IPC) or to both na	tional classificatio	on and IPC				
B. FIELDS SEARCHED							
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/2							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAONLINE, MEDLINE, WPIDS, USPATFUL							
	UMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where a			Relevant to claim No.			
X	NAKAO et al., Isoosmotic sucrose, adenine, inosine Biomedica Biochimica Acta 1983, Vol 42, No 5, pag and Figures 1 and 3.			1-3, 5-6, 11-13			
x	EROGLU et al. Intracellular trehalose improves the cells. Nature Biotechnology 2000, Vol. 18, pages 16 discussion.			4			
Further	documents are listed in the continuation of Box C.	See pa	atent family annex.				
	pecial extegories of cited documents: defining the general state of the art which is not considered to be of relevance	and not princip	in conflict with the application le or theory underlying the inver	ntion			
"E" earlier app	olication or petent published on or after the international filing date	conside	ent of particular relevance; the co cred novel or cannot be consider the document is taken alone				
	which may throw doubts on priority claim(s) or which is cited to he publication date of another citation or other special reason (ss	"Y" docum	ent of particular relevance; the correct to involve an inventive step	isimed invention cannot be when the document is combined s, such combination being obvious			
	referring to an oral disclosure, use, exhibition or other means		son skilled in the art	2 15			
	published prior to the international filing date but later than the te claimed		ent member of the same patent f				
Date of the actual completion of the international search 27 September 2005 (27.09.2005)		Date of mailing	of the international sea 17 NOV 20	rch report 105			
	ailing address of the ISA/US	Authorized offic	er . 7	Vd. A			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450		Sandra Saucier	of the international sea 17 NOV 20 For January L	Journ h			
	randria, Virginia 22313-1450 . (571) 273-3201	Telephone No.	•	•			

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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This internat	ional search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely.
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
	ional Searching Authority found multiple inventions in this international application, as follows: ontinuation Sheet .
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. Kemark on I	payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
	No protest accompanied the payment of additional search fees.
Form PCT/ISA	/210 (continuation of first sheet(2)) (April 2005) BEST AVAILABLE COP

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International appli PCT/US04/25895

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This International Search Authority has found 11 inventions claimed in the International Application covered by the claims indicated below:

his application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claims 1-13, drawn to a first method, a method of loading a solute into a red cell using an hyperosmotic solution.

Group II, claims 14-16, drawn to first composition, a red cell loaded with 10-50mM trehalose.

Group III, claims 17, 18, drawn to a second method, a method for separating damaged red cells from a population comprising contacting the red cells with a hyperosmotic solution, contacting with hypoosmotic solution, separating the cells.

Group IV, claims 19 and 23, drawn to a third method, a method for freeze-drying red cells by lowering the hematocrit to 2-5%.

Group V, claims 20-21, 24, 25 a fourth method, a method for freeze-drying red cells by drying the cells with liposomes and a buffer therefor.

Group VI, claims 22, a fifth method, a method for freeze-drying red cells with 200-300 mOsm potassium salts.

Group VII, claim 26, a second composition, a buffer comprising ascorbic acid and buffer.

Group VIII, claim 27 and 32, a third composition, a buffer comprising methylene blue and buffer and a method of use thereof.

Group IX, claims 28, 29, 33, a fourth composition, a buffer comprising transition metal ions, buffer and a method of use thereof.

Group X, claims 30, 34, a fifth composition, a solution for rehydration comprising ascorbic acid and a method of use thereof.

Group XI, claims 31 and 35, a sixth composition, a solution for rehydration comprising methylene, blue, ascorbic acid and transition metal ions and a method of use thereof.

1. This International Searching Authority considers that the international application does not comply with the requirements of unity of invention (Rules 13.1, 13.2 and 13.3) for the reasons indicated below:

The inventions listed as Groups I-XI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

An international stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the of following combinations of categories;

(1) a product and a process specially adapted for the manufacture of said product; or

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International application 10. , PCT/US04/255951

(2) a product and a process of use of said product; or	
(3) a product, a process specially adapted for the manufacture of the said product, and a use of the said product; or	
(4) a process and a apparatus specifically designed for carrying out said process; or	
6) a product, a process specially adapted for the manufacture of the said product and an apparatus specifically designed for carrying said process. 37 CFR 1.475.	
PCT.Rule 13 does not provide for multiple compositions or multiple methods of use within a single application. Thus, the appearing composition is combined with a corresponding first method of use and the additional composition and method claims each constitute a separate group.	irst
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